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Maritime Glaciers

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PREFACE

This issue of the *Annals of Glaciology* is themed on “maritime glaciers”, which was also the subject of the IGS symposium held in June 2022 in Juneau, Alaska. Glaciers in maritime climates are characterized by large amounts of snowfall and meltwater runoff, temperate ice, and wet firn. Due to their high mass turnover maritime glaciers respond quickly to climate change, and surging glaciers in maritime climates have shorter surge cycles than surging glaciers found elsewhere. A small percentage of maritime glaciers terminate in water, but these glaciers have outsized impacts on sea level rise due to their large size and susceptibility to rapid change. Maritime glaciers are rapidly changing under the influence of climate warming, causing serious impacts on land and ocean environments. Since they are situated close to the ocean, meltwater and sediment discharge from maritime glaciers directly affect marine conditions and ecosystems. Retreat of these glaciers also poses risks of natural hazards due to landslides and glacier lake outburst floods. A broad range of research subjects related to maritime glaciers was actively discussed at the IGS symposium in Juneau and presented by the papers published in this *Annals* volume.

Tidewater and surging glaciers in a maritime setting often show extraordinarily rapid fluctuations, which affect not only natural environments but also human society. For example, rapid advance of glaciers in Glacier Bay (Sít' Eetí Geeyi) in Southeast Alaska during the 17th century forced the Huna Tlingit people to evacuate from their homeland and establish a new settlement elsewhere. In the opening speech of the Juneau symposium, Prof. Lance X'unei Twitchell from the University of Alaska Southeast presented relationships between Tlingit culture and Alaskan glaciers, including native glacier names, glacier related history, and culture.

The *Annals of Glaciology* is a peer-reviewed thematic journal published by Cambridge University Press on behalf of the International Glaciological Society. The Associate Chief Editor (SS) and the chair of the local organizing committee (JA) wish to thank the contributors to this issue and the participants in the Juneau IGS symposium in 2022. We also express our gratitude to the reviewers for their constructive criticism and the five Scientific Editors for handling the articles. The editorial process was guided by the IGS Chief Editor, Hester Jiskoot, and the symposium organization was supported by the IGS Secretary General, Magnús Már Magnússon.

Shin Sugiyama and Jason Amundson